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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/536,894	05/27/2005	Jang-Won Park	4720-0111PUS1	4675
2292	7590 09/14/2006		EXAMINER	
BIRCH STEWART KOLASCH & BIRCH			KUHNS, ALLAN R	
PO BOX 747 FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
·		•	1732	
	•		DATE MAILED: 09/14/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
065 - 4 - 4' 0	10/536,894	PARK, JANG-WON				
Office Action Summary	Examiner	Art Unit				
	Allan Kuhns	1732				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN THE MAILING DOWN THE STATE OF THE MONTHS FROM THE MAILING DOWN THE STATE OF THE MONTH THE MONT	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be to will apply and will expire SIX (6) MONTHS fror , cause the application to become ABANDON	N. imely filed m the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 18 A	<u>ugust 2006</u> .	·				
2a) ☐ This action is FINAL . 2b) ☑ This	···					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) <u>28-62</u> is/are pending in the application 4a) Of the above claim(s) <u>56-62</u> is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) <u>28-55</u> is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the drawing(s) be held in abeyance. So tion is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail [5) Notice of Informal 6) Other:	Date				

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1.Applicant's election with traverse of Group I, claims 28-55 on August 18, 2006 is noted by the examiner. This election is being treated as occurring without traverse since no reason was given for the traverse. Claims 56-62 are withdrawn from consideration.

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- 2. The foreign references appearing on the IDS submitted May 27, 2005 are missing from the file. Please submit copies of these references in the response to this Office action.
- 3.Claims 28-55 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 28 is confusing because it apparently requires the presence of only "at least one foaming material", but then the interfacing pattern on that foaming material "prevents chemical and physical interaction between the foaming materials (plural)". Claims 30 and 31 are confusing because the wording appears to indicate that if an EVA –based film is selected, then this film could not have the physical characteristics of the other material recited in that claim. Markush groups must be recited as "selected from the group consisting of" rather than "selected from a group consisting of". Claims 32 and 33 are confusing because the members of the group do not appear to be mutually exclusive since both (EVA)-based resin and a copolymer of resins are recited. Claims 35 and 38 are indefinite because one of ordinary skill in the art would be unable to determine their metes and bounds since it is unclear what modifications are intended. In addition, it is unclear what other attachment is intended

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in claim 35 other than the cloth attachment, and it is unclear what constitutes "normal pressure" in claim 38. Clarification is required.

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 28, 30-35, 37 and 38 are rejected under 35 U.S.C. 102(b) as being anticipated by Yang (6,192,966). Yang discloses the claimed foaming method including (1) preparing at least one foaming material for a cross-linked foaming, the foaming material processed to have a plane or three dimensional shape (note plastic board 10 described at column 3, lines 36-37), (2) forming at least one interfacing pattern on a surface of at least one of the foaming material (note surface layer 20 or bottom layer 30, described at column 3, lines 37-39, which may be a plastic sheet, and (3) forming a cross-linked foam (column 3, line 43) by foaming the foaming material (note the second expansion described at column 4, line 1)having the interfacing pattern thereon, the cross-linked foam having a foam body and an internally formed surface. It is submitted that plastic sheet 20 or 30 inherently serves to prevent chemical and physical interaction between the at least one foaming material and any other foaming material.

Yang teaches the use of a EVA-based film or sheet, as in claims 30-33, and Yang teaches a sheet or film type covering or interfacing material, as in claim 34. Yang teaches an attachment of the cover film or sheet, as in claim 35. Claim 37 does not

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actually require two or more patterns, due to the use of "if", and it is submitted that the cross-linking, as in claim 38, occurs at some pressure.

5.Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allan Kuhns whose telephone number is (571) 272-1202. The examiner can normally be reached on Monday to Thursday from 7:00 to 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Johnson, can be reached on (571) 272-1176. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ALLAN R. KUHNS PRIMARY EXAMINER AU 1732

9-12-06

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